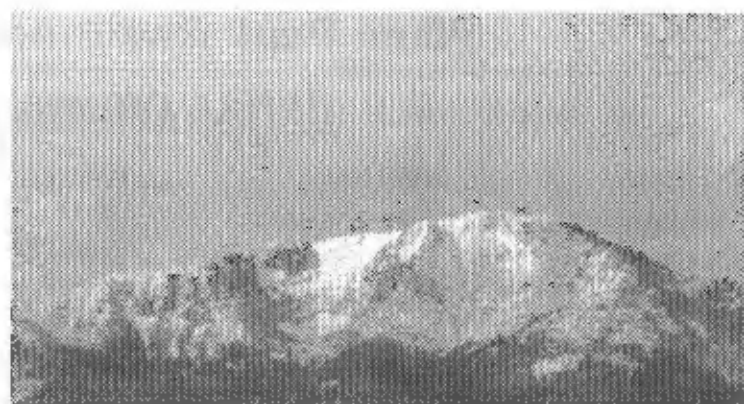




Ø Beat

Volume 49, Issue 8

The PPRAA is a non-profit 501(c)(3) organization August 1999

Inside This Issue:

August Program Notice.....	Page 3
Board Meeting Minutes.....	Page 6
Field Day Report.....	Page 8
Kit Building Class Scheduled.....	Page 4
Lunch Bunch.....	Page 4
Membership Meeting Minutes.....	Page 2
Picnic Map.....	Center
Pikes Peak Public Service.....	Page 3
President's Corner.....	Page 7
Swapfest Listing.....	Page 7
Universal Licensing is Here.....	Page 7

The Ø Beat is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935.

For membership and subscription information see the inside back cover of this publication.

Please send newsletter items directly to the Ø Beat Editor: Phone: 337-5721 / FAX: 683-7360 / Email: n0jth@qsl.net Permission is granted to reprint articles provided credit is given to both the author and this publication. Deadline for submission of articles or advertisements is the Monday following the Board Meeting. All submissions are the opinion of the authors and may not necessarily reflect the opinion of the Pikes Peak Radio Amateur Association or the editor.

Monthly advertising rates: Full page, \$48; Half page, \$24; Quarter page, \$12; Business card, \$6.

PPRAA Party Planners Predict Perfect Picnic

Here are all the details:

The Club picnic will be held at the Fountain Creek Regional Park on August 22nd, 1999, from 9am to 4pm at Pavilion Number 1. See the map printed in this issue of Ø Beat. Here are the written directions: Head South on I-25 to Exit 132. Take Hwy 16 East for 1/2 mile. Take the Security exit to the Hwy 85/87 junction. Turn right on Hwy 85/87 and go South approximately 1 mile to Duckwood Road. Turn Right on Duckwood Road into the park. Take the first left, and follow this road till it ends. Talk-in will be on 146.58 MHz.

If your last name begins with a letter between A and H, please bring a desert.. If your last name begins with a letter between I and Z please bring your favorite salad.

If you would like to help, call Renay Boyes, KA0ROY, at 337-5721, Thanks!

Reminder — General Membership Meeting

Our next General Membership Meeting be on the second Wednesday of this month at 7 PM. We will be meeting at Mt. Calvary Lutheran Church, 1318 N Circle Drive, (between Galley Road and Palmer Park Boulevard) in Colorado Springs.

Pikes Peak Radio Amateur Association

PPRAA Officers and Directors

President:	Moe Pierce	WBØRTF	550-0406	wb0rtf@amsat.org
Vice-President:	Mike Anderson	WV7T	634-7168	wv7t@aol.com
Secretary:	Paula Gainer	KCØAGG	391-2567	hobbylady@hotmail.com
*Treasurer:	Rob Roller	N7LV	282-0204	n7lv@amsat.org
Ø Beat Editor:	Jeff Boyes	NØJLH	337-5721	n0jlh@qsl.net
*Past President:	Greg Tarcza	WA2OOD	597-7064	gregt@col.hp.com
*Board Member:	Bill Petty	NØNJX	532-1439	william.petty@lsil.com
*Board Member:	Les Borst	KCØNC	634-3995	kc0nc@kktv.com
Board Member:	Roger French	KBØRLF	598-9570	clutch_service@msn.com

*This Officer/Director is completing the second year of the two-year term to which they were elected.

General Membership Meeting Minutes

July 14, 1999

Paula Gainer, KCØAGG

Moe WBØRTF called the meeting to order at 7:05pm. Introductions were given.

Les KCØNC motioned to accept the minutes as printed in the Ø Beat. Jake NØCYR seconded, and it passed.

Treasurer's Report: The Treasurer's Report was accepted as stated.

Announcements: Mike NØMIK stated that he was coordinating ham radio support for the Balloonfest. It will be held on September 4th, 5th, and 6th. There will be four events, including a launch each morning and also a balloon glow on Saturday evening. Volunteers are needed, if you can help contact Mike NØMIK.

George WBØDUM announced about an article in Tuesday July 13th's paper about "The Hams Plan to Beat the Y2K Bug: Low Technology - Hams Mobile Shacks to the Rescue." He stated it was well written and advised us to check it out. He also commended members that worked the MS-150 Bike Tour. He thanks all that participated.

Rosie WAØMNL reminded all members of the lunch bunch gathering at The Super China Buffet at 3835 N. Academy.

Committee Reports:

Activities: Renay KAØROY talked about the Club picnic which will be held at the Fountain Creek Regional Park on August 22nd, 1999, from 9am to 4pm. Located at Pavilion Number 1. A reminder that A-H please bring a desert and I-Z please bring your favorite salad.

Historian: Jody KAØROZ has purchased a case for storage of PPRAA history paperwork. She is continuing to work on extracting interesting information from the past issues of the Ø Beat.

Membership: Les KCØNC stated that if any corrections need to be made in the roster to please let him know. He also had three calls about the article in the newspaper.

Old Business: None.

New Business: Warren WØYNE handed out certificates for those who helped with the MS 150 Bike Tour. He stated that he had a good time, and thanked all that participated. It would not have been a success without help.

Moe WBØRTF stated that the MS 150 was a job well done. She also said that Bill KDØJU won the left-footed contest by 1 second.

Mike WV7T said that for those wishing to purchase

(Continued on page 3)

Ø Beat

Committee Chairpersons/Contacts

Activity	Renay Boyes	KAØROY	337-5721
Auditing	Jerry Allen	NØGCA	264-1278
Asset	Mike Stansberry	KØTER	636-1290
Historian	Jody Borst	KAØROZ	634-3995
Interference	Bill Petty	NØNJX	532-1439
Membership	Les Borst	KCØNC	634-3995
Programs	Rick Brown	KØSU	531-9423
Publicity	Jerry Allen	NØGCA	264-1278
Public Service	Mike Stansberry	KØTER	636-1290
Swupfest 2000			
Technical Instr.	Linda Hedges	KBØRKW	520-9238
VE Testing	Erik Mugele	KGØXE	596-5345
Ø Beat Editor	Jeff Boyes	NØJLH	337-5721

August Program **Rick Brown, KØSU**

DXing for beginners - E.J. Lund, KDØNB

(Continued from page 2)

Field Day pins, they would be \$5.00 and to let him know. He also reminded us of the up coming October Elections, and to consider filling the very important positions of the PPRAA, such as, President, Vice President, Treasurer, and Secretary.

The Hammy Award: Kate KCØEJJ, told us a wonderful story about how she got started into the hobby of Ham radio, and that Rick Brown had given her and her family a lot of encouragement, and support. She then awarded the hammy to Rick Brown KØSU.

Programs: Dave NØUVR gave a very informative talk on Direction finding or Foxhunting. Austin was the fox for the month of July. Dave had some interesting stories to tell us about how tricky the fox really can be.

The next Board meeting will take place at the QTH of Greg WAZOOD at 7:00pm.

The Meeting adjourned at 8:50pm.

Submitted by Paula J. Gainer KCØAGG Secretary.

Other Organizational Liaisons

ARES Liaison Mike Stansberry KØTER 636-1290
CCARC Liaison Ron Deutsch NKØP 593-8352
RACES Liaison John Roberts KBØVGX 575-8400



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Joe, KDØGA Dean, ACØS

Pikes Peak Public Service **Rob Roller, N7LV**

In the June Ø Beat I started what I hope will be a regular column on public service. I listed a few upcoming public service events and activities that you can participate in. Two of the larger ones, the Pikes Peak Hill Climb and the MS-150, should be wrapped up by the time you read this. Participation in one of these two is an excellent way to determine if you're carrying everything you need. Well, you'll probably never get to that point, because for one thing, there's not enough room in most vehicles to carry everything you'll ever need. Secondly you're bound to run into someone that's brought along something that you didn't think of, but you could have used. Rather than try to list a bunch of items to bring (because every person will have a different list) I'll suggest groups of things that you should carry to be prepared for emergencies. From this you can develop your own list of specific items.

Radio Equipment: Inventory your radio equipment and all gear necessary to operate it: VHF, UHF, HF radios, antennas and mag mounts, microphones, head-

(Continued on page 10)

Pikes Peak Radio Amateur Association

License Exams

License examinations sponsored by the PPRAA are held at 9 AM on the 2nd Saturday of February, April, June, August, October, and December at Denver Technical College, 3245 International Drive (one block E of Union at Parkside Dr.) in Colorado Springs. The entrance to the rooms we use are marked "DTC."

Everyone is seated on a walk-in basis. Those wishing to take an exam should bring the following items:

- \$6.45 (preferably a check/money order made out to ARRL/VEC) for any exam other than element 1A or 2.
- Picture identification.
- A copy of your current amateur radio license, and/or a copy of any examination credit you have, as well as the signed original. We keep the copies.
- A pen, pencils, and a calculator if you need one.

If you have questions, call Erik Mugele, KGØXE at 596-5345. Please do not call Denver Technical College.

John Max, President
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Lost!
Jeff Ryan, NØWPA

Lost: At Field Day- A large orange medical/first aid kit with a blue medical insignia. Contact Jeff, NØWPA at 535-1568 (days).



There will be no
LUNCH BUNCH
in August due to the PPRAA annual picnic. We will meet again in September. See you at the picnic!
73, Ginger NØUOD

Ham Radio Kit-Building Class **Dave Ek ABØGO**

Do you want to build your own ham rig but don't know where to start? Are you interested in learning more about what goes on inside your radio? Then sign up for a Ham Radio Kit-Building Class! Tentatively scheduled for eight Sunday afternoons from 1 to 5 PM beginning on 26 September (location to be determined), this class is for hams who'd like some help getting started with kit-building or who'd like a bit of hands-on experience with radio theory. Over the eight weeks, participants learn about how ham radios work as they construct a 40 meter QRP CW transceiver, the SW+40 from Small Wonder Labs. Although compact and fairly inexpensive, this rig is a fine performer and is very popular among QRP enthusiasts. It puts out about 2 watts and covers 40 kHz or so of the CW-subband.

Cost for the class is \$100, which covers the cost of the complete kit and the class handouts. Participants provide their own tools (soldering iron & solder, side cutters, etc.) but necessary test equipment will be provided. Deadline for signup is September 4, and the class fee is due at that time so that kits can be ordered and received in time for class to begin. For further information visit <http://home.earthlink.net/~ekdave/kit-class.html>, or to sign up, contact Dave Ek ABØGO at ekdave@earthlink.net or call him at 594-9201.

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FLORENCE, COLORADO 81226
(719) 784-3040

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COLLINS - KWM2 XCVR W/PM2 PS. SLIDES ON REAR NICE & WORKS GOOD \$650.00
COLLINS 30L1 AMP. NICE. WORKS GOOD - CONTAINS 4- 811A TUBES \$800.00
COLLINS R388-URR GEN COV RCVR IN CABINET. EXCELLENT \$500.00
MIRAGE 1015G 6 METER AMP/PREAMP ALL MODE 10/150W DEMO \$295.00
KENWOOD 45930S/AT NICE COND \$750.00
KENWOOD TS520 ANALOG WORKS GREAT \$350.00
KENWOOD TS520SE, COVERS 160-10m. NO MIKE. WORKS GREAT \$375.00
KENWOOD TS530SP, DIGITAL, WARC, EXCELLENT CW/SSB FILTER \$550.00
KENWOOD 530S, DIGITAL WARC \$500.00
KENWOOD TS700A 2M ALL MODE AC-DC WORKS GREAT \$350.00
KENWOOD 2100 WAT-SWR METER HF, \$100.00
KDK FM2025, 2M MOBILE NO TONE, WORKS GOOD. \$100.00
YAESU FT757GX EXCELLENT \$575.00
YAESU FC757 AUTO TUNER EXCELLENT \$250.00
YAESU FTV707 6M TRANSVERTER EXCELLENT FOR 757GX, OTHERS \$200.00
ALL THREE PACKAGE DEAL \$950.00
YAESU FTV650B 6M TRANSVERTER 50W PEP INPUT \$200.00 (FOR YAFT101.B.E.EE.EX)
YAESU - FT101 XCVR. WORKS GOOD \$325.00
YO100 MONITOR SCOPY \$95.00
ALL THREE FOR \$575.00
YAESU - FL2100B 80-10 MTR AMP TWO 572B TUBES 1200 W PEP NICE \$375.00
YAESU SP901P SPEAKER -PATCH \$75.00
ALINCO TE206, 25W 2M MOBILE E/W 100HZ TONES, \$100.00
AZDEN PCS3000, 25W 2M E/W 100HZ TONE, \$100.00
ATLAS 350XL SOLID STATE 160-10 MTR W/MATCHING PS \$350.00
ATLAS 350XL NO - PS \$250.00
ALL THREE FOR \$500.00
SWAN 500CX & PS-SP. LOADS TO 225 WATTS AND OVER 500 W PEP AND GOOD ON AIR REPORTS
\$200.00
MURCH 2000A TUNER 2KW PEP \$150.00
HEATH LUNCH BOX 2ER AM/CW AND BUNCH OF OTHER HP, MOTOROLA, MILATARY AND HEATH
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PLAN TO BE AT HAM FEST IN LOVELAND JULY 17TH - DRC JEFFCO AUGUST 15TH - WOODLAND PARK AUGUST 28TH

Pikes Peak Radio Amateur Association

Board Meeting Minutes

July 19, 1999

Paula Gainer KCØAGG

Attending Members: Moe WBØRTF, Mike WV7T, Paula KCØAGG, Rhoda KB2BZY (Proxy for Rob N7LV,) Greg WA2OOD, Les KCØNC, Bill NØNJX, Bill KDØJU (Proxy for Roger KBØRLF,) and Jeff NØJLH.

Guests: Jody KAØROZ, Renay KAØROY, And Cassie.

Moe welcomed all the members at 7:05pm.

Roger KBØRLF was not present but asked Moe to mention that his church events are being changed from Wednesday nights to Monday nights so he would be unable to attend some of the Board meetings. The board decided that as long as he had a proxy, and he would not miss every Board Meeting, we would not need him to submit a resignation.

Paula KCØAGG talked about Mary Suddarth WA5CRU soon having extensive back surgery. The date is unsure at this time. Mary WA5CUR seems to still be in good spirits. Cards and phone calls would be welcomed.

Les KCØNC told everyone that since Rob would be out of town, and he would not be getting any applications of membership renewals, that he would be printing up the labels early with the same expiration dates as last month. So if memberships were current, members would receive their Ø Beat. Also he extends his apology for two call sign mistakes that were printed in the Ø Beat roster and they would soon be corrected. Please contact a board member if corrections are needed. Membership is slowly increasing and it stands at a total of 164 members.

Renay KAØROY stated that she reserved Pavilion number 1 for the Club Picnic at Fountain Creek Regional Park for August 22, 1999. She asked the board for reimbursement of \$52.00 for the park rental. Les KCØNC motioned to reimburse the money, Paula KCØAGG seconded, and the motion carried. The August Board meeting will take place at the picnic. Renay also gave us information about the upcoming Christmas Party. There is some consideration on having it either at Irving Middle School, or the Colorado Music Hall, she will do some research on the Music Hall, as far as cost goes, and let us know.

Mike WV7T would like to invite members to check out his web-site at www.qsl.net/wv7t/wv7t.htm. He hopes that you will enjoy it.

The September Board meeting will take place at the QTH of Mike WV7T.

Jeff NØJLH motioned to adjourn Paula second and the meeting ended at 7:53pm.

Submitted by Paula J. Gainer KCØAGG Secretary.

When you buy from a Ø Beat advertiser, let them know where you saw their ad!

Upcoming Swapfests

August 15, 1999

ARRL State Convention & DRC Hamfest, Jefferson County Fairgrounds, Golden. Ron, 303-989-3978

August 28 & 29, 1999

MARC Campfest-Swapfest

Colorado Lions Camp

4 mi N of Woodland Park on Hwy 67 N

Potluck Saturday at 1700 - Bring your own meat & a potluck dish. Admission free.

Grand Prize (FT-100) drawing Sunday at 1100

Camping spaces \$10, setup Friday 8/27 after 1400

MARC, POB 1012, Woodland Park, CO 80866

Talk-in 146.82- 107.2 Hz

Wes Wilson KØHBZ, wlw@prodigy.net.

719-687-8758

Field Trip Enjoyed By All Robert Becker KCØFIH

I wanted to let you know about a field trip I took to the KKTU Channel 11 TV station. First of all I would like to clear up a myth about newscasters- they DO NOT sit like mannequins when they are off the camera. They have a good time and joke around. I don't know how they get used to those extremely bright lights that shine on them - I know I couldn't stand them for more than 5 minutes. Inserted in the anchor table there are three Teleprompters. On each chair behind the anchor table there is a pedal to scroll through the text of the Teleprompter so each person can read at his own rate. Another thing I want to bring to your attention is why forecasters often look to one side or the other while they are explaining the weather map. The truth is the map is generated onto a green background by computer before being received by your TV. There are two monitors, one on each side, attached to the green background. This is why the weatherman looks sideways - so he can direct his hand to the appropriate area. If any of the readers care to satisfy their own curiosity on how TV broadcasting works you can contact Mike (WV7T) and see if this tour may still be available. Tell him Robert sent you.

President's Corner Moe Pierce, WBØRTF

I want to thank everyone who attended the last meeting of the PPRAA in July. The program given by Dave, NØUVR was very interesting and well attended. Well, it is good to know that we have a picnic site for August which will be at the Fountain Creek Regional Park. My understanding is that we haven't had a picnic down in the south end in some time so this should be good.

October will be election of officers, and it is time that everyone be thinking about who they want to nominate. There will be no lunch bunch in August because of the picnic. We will all be looking forward to the MARC ham fest at the end of August.

Some of our members having health problems as of late, and we hope they are doing better and on the mend.

Thanks again for everyone's help and support.

Ham Radio Universal Licensing System Phase-In Period Begins August 8th. From the ARRL Letter (Vol 18, Number 30)

The FCC begins phasing in the Universal Licensing System for the Amateur Service August 8 at 4 PM Eastern Time. That's when the FCC stops accepting new or upgraded licensee data from Volunteer Examiner Coordinators under the current amateur licensing system.

The ULS ushers in an era of electronic, interactive filing and handling of Amateur Radio applications. Being phased out under ULS is the familiar paper FCC Form 610 series. A "universal" Form 605--primarily designed for electronic use but also available on paper--will take its place.

(Continued on page 9)

Pikes Peak Radio Amateur Association

Field Day – 1999
Rick Brown, KØSU

Wow — what a weekend. I sure hope everyone had as much fun as I did. Thought I would jot down a few notes while I can still remember them. It has been a few years since I attended Field Day because of some other commitments. I am sure glad I was able to take part this year. Some of my best memories of ham radio come from Field Day, and I am sure I will remember this one for a long time.

There were so many people doing so many things I am not sure where to start. Of course the biggest thanks must go to Mike Stansberry, KØTER for coordinating this years club effort. Rumor has it that it went so well and he enjoyed it so much that Mike is even willing to step up and do it again next year. I don't think that is an offer the club could refuse. Mike also ran the CW station this year as usual. Boy it always amazes me to hear him operate, but Mike may have found his match in Aki, ABØIH who operated CW for a couple of hours Saturday evening. It was wonderful to hear him operate. I could almost pick out the calls as he was knocking them out! A special note here, Aki has a new baby daughter but his wife let him out to play radio. We owe her a big "thank you" also. Another operator putting in a CW guest appearance was Greg, WA2OOD. He said next year he would be ready for five hours of operating. I am sure Mike will appreciate the relief.

We owe a great big "thank you" to Ted Allison, NØNKG for showing up at the last minute and setting up the VHF/UHF station. I know he made a bunch of contacts on two meters and a few on six with some of the locals. He had help from Dennis, KIØPV too. Ted was so busy at the station Saturday afternoon that I think he almost missed dinner. Next time we won't put him so far away from the rest of the group.

Speaking of dinner, thanks to the MARC folks for all of the work in putting on dinner Saturday evening. I thoroughly enjoyed that. Other than Wes, KØHBZ I never did learn (or maybe can't remember) any of the names, but you folks sure did a fine job. We all appre-

ciate your efforts.

Of course it was primarily folks from the MARC group that set up the Novice/Tech station. I still wonder how they got RF to that dipole that didn't have coax running to it. I need to go back and check that out next year. <G> I saw lots of folks there making contacts for the first time and really enjoying themselves. Kate, KCØEGJ came down to dinner after making a few contacts and was really psyched up. I am sure this will encourage her to get that code speed up to 13 wpm. It is really great to see people having so much fun. I also remember seeing Mike, NØMIK logging for Frank, KAØYPX. There were many others operating and I apologize for not mentioning you. I will make a greater effort to get around and meet some of you next time. I was having too much fun operating myself I guess.

Tom, NØNTX and the satellite group seemed to have a great time. Tom must be a natural teacher. In between satellite passes he was always explaining some aspect of satellite operation to those who stopped by to visit. I know Tim Rader was there as well soaking up all the information he could. Also, I think it was N6UPL I saw there operating a lot.

Of course I spent most of my time hanging around the SSB station. First off, I must say thanks to Les, KCØNC for bringing out so much of the equipment. Also, thanks to Al, NØCMW for providing the generator we used to power the SSB and the Satellite station. There is a long list of operators who were active at the SSB station. I do especially want to thank Aki, ABØIH and Jeff, NØWPA for logging for me when I was operating. Also, a big pat on the back to Dan, KBØPPM for putting in so many hours throughout the night. Always a tough shift to fill and a tough time to operate. I remember for sure Les and Jody, KBØROZ taking a turn as well as Renay, KBØROY, Jeff, NØJLH, and Cassie bringing in quite a few contacts. Sunday morning Dennis KIØPV was there guiding one of the Tech Plus operators along as he made his first HF contacts. That is what it is all about folks.

Mike, WV7T was having so much fun on Friday night

(Continued on page 9)

(Continued from page 7)

A July 23 FCC Public Notice says the Wireless Telecommunications Bureau will begin using the ULS for the Amateur Service on August 16. Existing Amateur Radio licensing data will be transferred into the ULS database during a weeklong phase-in period. During the phase-in period, the FCC will not process licenses.

Electronic filing of Amateur Radio license renewals using FCC Form 900 ends August 9 at 9 AM Eastern Time. Electronic filing of vanity call sign application Form 610V terminates August 13 at 5:30 PM Eastern Time. Hams should not attempt to file renewal or vanity applications until the ULS comes up August 16.

(Continued from page 8)

before the event really started that he stayed up all night working DX. It didn't help our Field Day score a bit, but he sure did have fun. Next year we will have to get him to operate during the normal period so we can include his contacts in our score.

I can't say enough about all of the support folks who helped with all of the little things that make it so much easier for those of us who are operating. Rosie, WAØMNL, Russ, KBØNMN, and Rhoda, KB2BZY were always there providing water and other drinks to keep us going. Sid, K4ARM was there cooking and running for things whenever we needed them. Also, Doc, WØMCT and Jake, NØCYR were always there to lend a hand and give advice when needed. Doc and Jake literally got the sh__y end of the stick this year, cleaning up a stopped up toilet on Sunday morning. Don't know what we would do with out you guys. We also can't forget Rick, NØNJY who was able to get the GP medium tents from the AF Reserve at Peterson AFB. That surely made a big difference to us.

I almost forgot to mention Georgina (George - WBØDUM). Your levity and your help was greatly appreciated. Where do you get your hair done anyway?

Well, I am sure I missed many of the folks that were there and helped out, but believe me it was not intentional. I don't know what our score was, but we certainly should get "style" points for everything that was accomplished. I am sure many of us learn more in this one weekend than we do the rest of the year when it comes to radio and operating! I am already thinking about things we can do next year to make Field Day better than ever. I hope you are too.

Starting August 16, hams registered in the ULS may file the new FCC Form 605 electronically at any time of day, seven days a week. FCC Form 605 will be used for license renewals, modifications, cancellations, vanity call sign application, application withdrawals and amendments, as well as requests for duplicate licenses and administrative updates (ie, a change of address or other clerical license modification). Applications for new or upgraded licenses will continue to be filed through a Volunteer Examiner Coordinator.

Automated processing of electronically filed applications will occur nightly each business day, but five days a week instead of seven. There will be no weekend processing under the ULS. The FCC has warned that applicants should anticipate processing delays during the first couple of weeks the ULS is in effect.

The FCC will stop accepting most Form 610 applications next February 16, but club station Form 610B will continue to be valid beyond the six-month transition window to allow time for the FCC to implement new handling procedures.

Among the advantages of the ULS, the FCC says, are fast and easy electronic filing, improved data accuracy through automated checking of applications, and better electronic access to licensing information. One feature of the new ULS is a renewal reminder sent 90 days prior to a license's expiration date. ULS also will simplify the process of submitting fees to the FCC, and the FCC said it anticipates that the ULS will be capable of accepting credit card payments on-line in the near future.

(Continued on page 10)

Pikes Peak Radio Amateur Association

(Continued from page 3)

phones, coax jumpers, longer runs of coax, RF adapters, power cables and adapters, and fuses. This should get you started. These are all things you are likely to need if you operate your rigs from multiple locations. If you were asked to take your rig from your house and operate it from the served agency's headquarters, can you do it? What do you need that they don't have? Don't know what they have? Will you operate from commercial power or emergency power? In a tent or in a building? What will be your energy source? Generator, 12V power supply, someone else's car? Can you adapt? Will there be antennas or will you bring your own?

Energy Sources: Operating strictly from your car, your 12V battery is your primary energy source. That energy ultimately comes from your fuel tank, so make sure that's full. HT's require batteries, or a recharging source. A power inverter is a handy item to carry if you depend on rechargeable battery packs. Don't forget the charger! If you're operating from a tent, you need a generator, solar cells, or a long cable to get back to your vehicle. Taking radios inside a building means you need a power supply adequate for your power needs.

Personal Safety, Survival: Don't sell yourself short on food and water, and protection from the elements. Clothes for all weather conditions: hat, gloves, rain gear. Medication. Toilet paper. Glasses, if you wear contacts. First aid kit. Road flares. Signal mirror. Compass. GPS. Matches. Also make sure you have everything for your vehicle to operate without problems: tire chains, gas can, jumper cables, flares, coolant, oil, etc.

Tools: Basically bring any tool that'll you need to install your radios and antennas or make repairs. Plus a few other general purpose items are in order, such as tape, a soldering iron, extra wire and cable, and a VOM.

Reference Materials and Emergency Communicator Equipment: Maps. Handbooks from your served agency. Phone lists. Badge or credentials. Pen, pencil, paper. Message forms, either ARRL or a form approved by your agency.

Other: If you're operating a specialized mode, such as packet or ATV, you'll need to develop your own list. Or you may want to bring a cell phone, a folding table and chairs, high-power spotlight, video and still camera.

Start your own list then compare lists with others to see what they do. If you missed Field Day you missed an opportunity to compare lists with lots of folks. Get involved with ARES or RACES and compare lists with some of their members. You can find numerous lists on the Internet. For starters, check out <http://www.iex.net/ares/gobag.htm> and <http://www.stetson.edu/~kmccoy/eop.html> Then come volunteer for the next public service or exercise event.

(Continued from page 9)

Registration in the ULS is required. Applicants should use FCC Form 606 for both electronic or manual filing. To register online, visit <http://www.fcc.gov/wtb/uls/> and click on "TIN/Call Sign Registration." A paper FCC Form 606 is available at <http://www.fcc.gov/formpage.html> or from the FCC's Forms Distribution Center, 800-418-3676.

The FCC will not process future license grants, upgrades, modifications or renewals for any applicant not registered in the ULS. Individuals eligible to hold a Social Security Number must provide this number to the FCC in order to be registered in the ULS.

A copy of the July 23, 1999 Public Notice is available at <http://www.fcc.gov/wtb/uls>. Additional information on ULS will appear in the Washington Mailbox column in the September issue of QST.

Don't forget the Colorado 14er Event

Sunday, August 29th — During the event, a group of amateur radio operators will operate portable from the summits of various Colorado 14000 foot mountains. The operating times will be from 9 AM to 12 Noon local time. See last month's O Beat for all the details.

Ø Beat

Membership Application - Pikes Peak Radio Amateur Association, Inc.

P.O. Box 16521, Colorado Springs, Colorado 80935

Date: _____ ☐ New Membership ☐ Renewal

Name _____

Address _____

City _____ State _____ Zip _____

Call _____ License Class _____

Telephone _____ Email address: _____

Are you an ARRL member? ☐ Yes ☐ No

One year membership rates, starting the month you receive your first issue:

- | | |
|--|---|
| ☐ Full Member - \$15.00 | ☐ Family Membership (same address) - \$18.00 |
| ☐ Full Member over 65 - \$10.00 | ☐ Family Membership (both over 65) - \$12.00 |
| ☐ Associate Member - \$12.00 | ☐ Newsletter only \$12.00 |

Additional Name: _____ Call _____ Class _____

Additional Name: _____ Call _____ Class _____

Would you participate in/ help with:

- ☐ Field Day
- ☐ Swapfest
- ☐ RFI Committee
- ☐ Radio demonstrations
- ☐ On-Air Nets
- ☐ Public Service
- ☐ Teach potential hams about ham radio (Elmering)
- ☐ Hospitality
- ☐ Public Relations

Your Interests

- | | |
|-----------------------------------|------------------------------------|
| ☐ HF | ☐ VHF/UHF |
| ☐ FM | ☐ SSB |
| ☐ Digital | ☐ DX |
| ☐ Contests | ☐ Technical |
| ☐ Hardware | ☐ _____ |
| ☐ _____ | ☐ _____ |
| ☐ _____ | ☐ _____ |

Please Note: You must submit a completed application form along with your check to the Treasurer for both new members as well as renewals. Thank you! PLEASE TYPE OR PRINT CLEARLY!

Dits And Bits

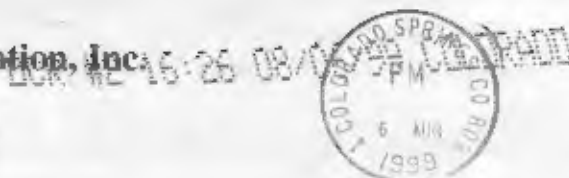
Give Away: Hy-Gain Trap Vertical Antenna. Covers 10,15,20, & 40 Meters. Antenna is down, but not disassembled. Call Charlie WØEJP, 719-634-7358 home, 719-475-2545 bus. or email charlie0@pcisys.net

Estate Sale: Heathkit Phone Patch, Astron Power Supply, Ameritron AL-80A HF Amp, Cushcraft Ringo Ranger 2 M Antenna, Electrovoice 664 Dynamic Cardioid Desk Microphone, other items. Many small parts -- resistors, capacitors & etc. All from Estate of WB6JJS & KA6CVQ, please contact Jim Moody, 637-9022.

For Sale: 25-ft steel tower, 1 piece, with 10-ft mast. Good shape. Down and ready to move. \$75 or negot. Cushcraft AR10 10m Ringo Vertical. Includes 25ft collapsible or solid pole. \$40. Bruce KGØLH 636-3865 eves. Or bkliche@asi-tech.com

For Sale: Kenwood TR751A 2 Meter Single-sideband Mobile rig, LSB, USB, CW and FM 25 Watts. GaAs-FET front end, Noise Blanker, DTMF Mike. One-owner, 6 years old. Works great! Has optional CTCSS Tone Board, mobile bracket and manual. \$325. Ted Allison, NØNKG, 719-633-1517 home or 719-590-2555 work, teda@col.hp.com

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P.O. Box 16521
Colorado Springs, Colorado 80935



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